DISTANT-SEGMENTS-KERNEL$(s, t, \delta_m, \theta_m)$

$c \leftarrow 0$

FOR any two j_s, j_t such that $s[j_s+1] = t[j_t+1]$ DO

$n \leftarrow \min(|s|-j_s,\ |t|-j_t,\ \delta_m)$

$k \leftarrow -1 \ ; \ i \leftarrow 1$

WHILE $i \leq n$ DO

$k \leftarrow k+1 \ ; \ i_{2k} \leftarrow i$

DO $i \leftarrow i+1$ WHILE $(i \leq n$ AND $s[j_s+i] = t[j_t+i])$

$i_{2k+1} \leftarrow i \ ; \ l_k \leftarrow i_{2k+1} - i_{2k}+1$

DO $i \leftarrow i+1$ WHILE $(i \leq n$ AND $s[j_s+i] \neq t[j_t+i])$

$c \leftarrow c + \binom{l_0}{3} - 2\binom{l_0-\theta_m}{3} + \binom{l_0-2\theta_m}{3}$

$c \leftarrow c + \min(\theta_m, i_1-i_0) \cdot \sum_{r=1}^{k} \left(\binom{l_r}{2} - \binom{l_r-\theta_m}{2} \right)$

RETURN c